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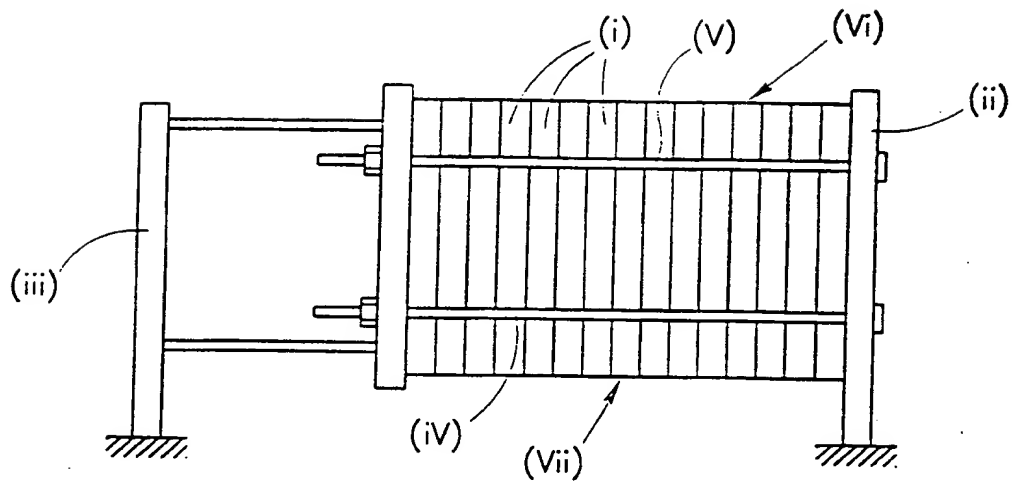


FIG. 1A
PRIOR ART

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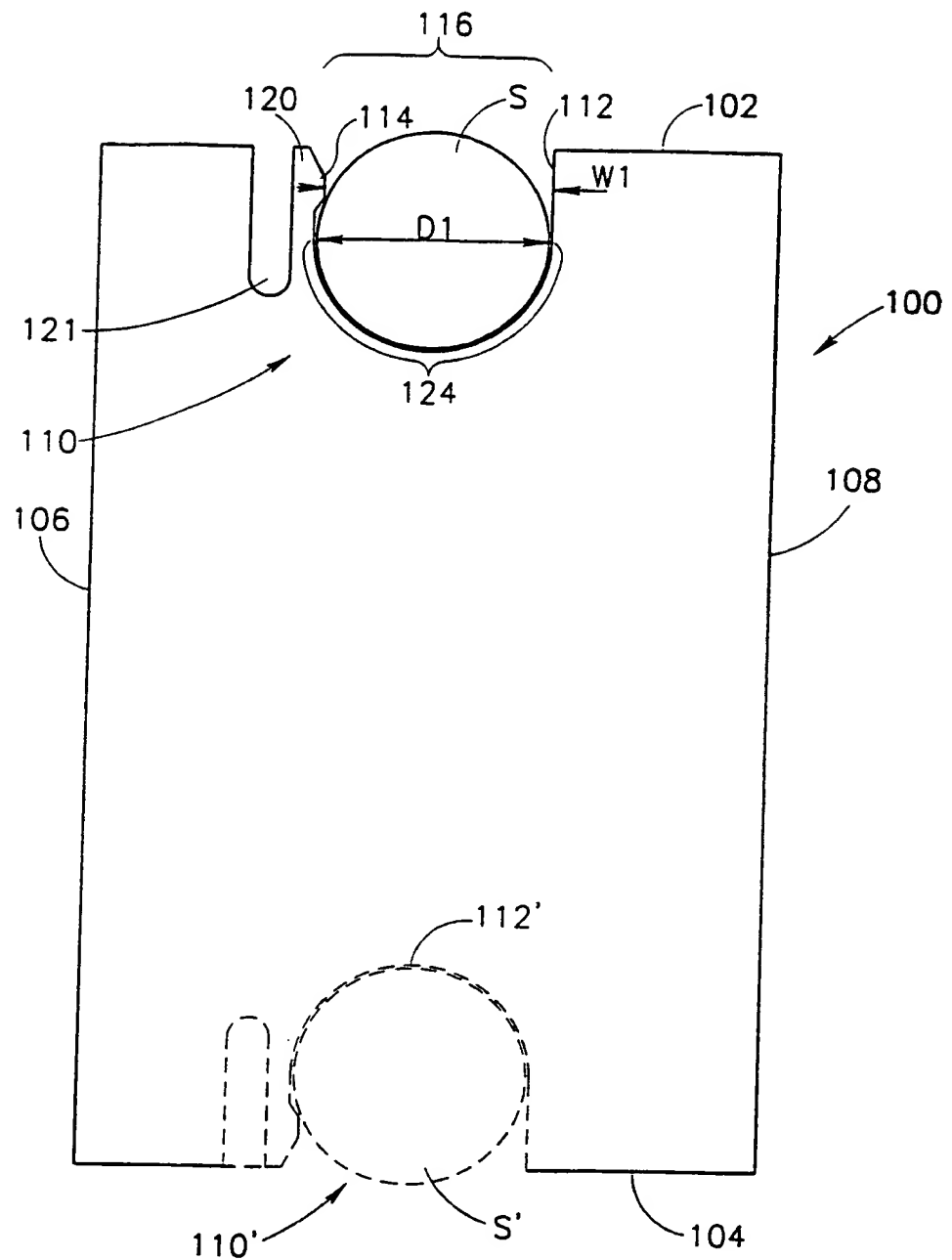


FIG. 1B

Parameter	Control	100 mg/kg	200 mg/kg	400 mg/kg	800 mg/kg
Body weight (g)	200 ± 10	200 ± 10	200 ± 10	200 ± 10	200 ± 10
Food intake (g)	10 ± 2	10 ± 2	10 ± 2	10 ± 2	10 ± 2
Water intake (ml)	5 ± 1	5 ± 1	5 ± 1	5 ± 1	5 ± 1
Urine volume (ml)	10 ± 2	10 ± 2	10 ± 2	10 ± 2	10 ± 2
Urine pH	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2
Urine creatinine (mg/dl)	0.5 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	0.5 ± 0.1
Urine urea (mg/dl)	10 ± 2	10 ± 2	10 ± 2	10 ± 2	10 ± 2
Urine glucose (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine protein (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine albumin (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgM (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgA (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgE (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG1 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG3 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgA1 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgA2 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgM1 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgM2 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgE1 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgE2 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2a1 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2a2 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2b1 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2b2 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG1a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG1b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG3a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG3b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgA1a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgA1b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgA2a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgA2b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgM1a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgM1b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgM2a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgM2b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgE1a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgE1b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgE2a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgE2b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2a1a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2a1b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2a2a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2a2b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2b1a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2b1b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2b2a (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG2b2b (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG1a1 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG1a2 (mg/dl)	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Urine IgG1b1 (mg/dl)	0 ± 0	0 ± 0			

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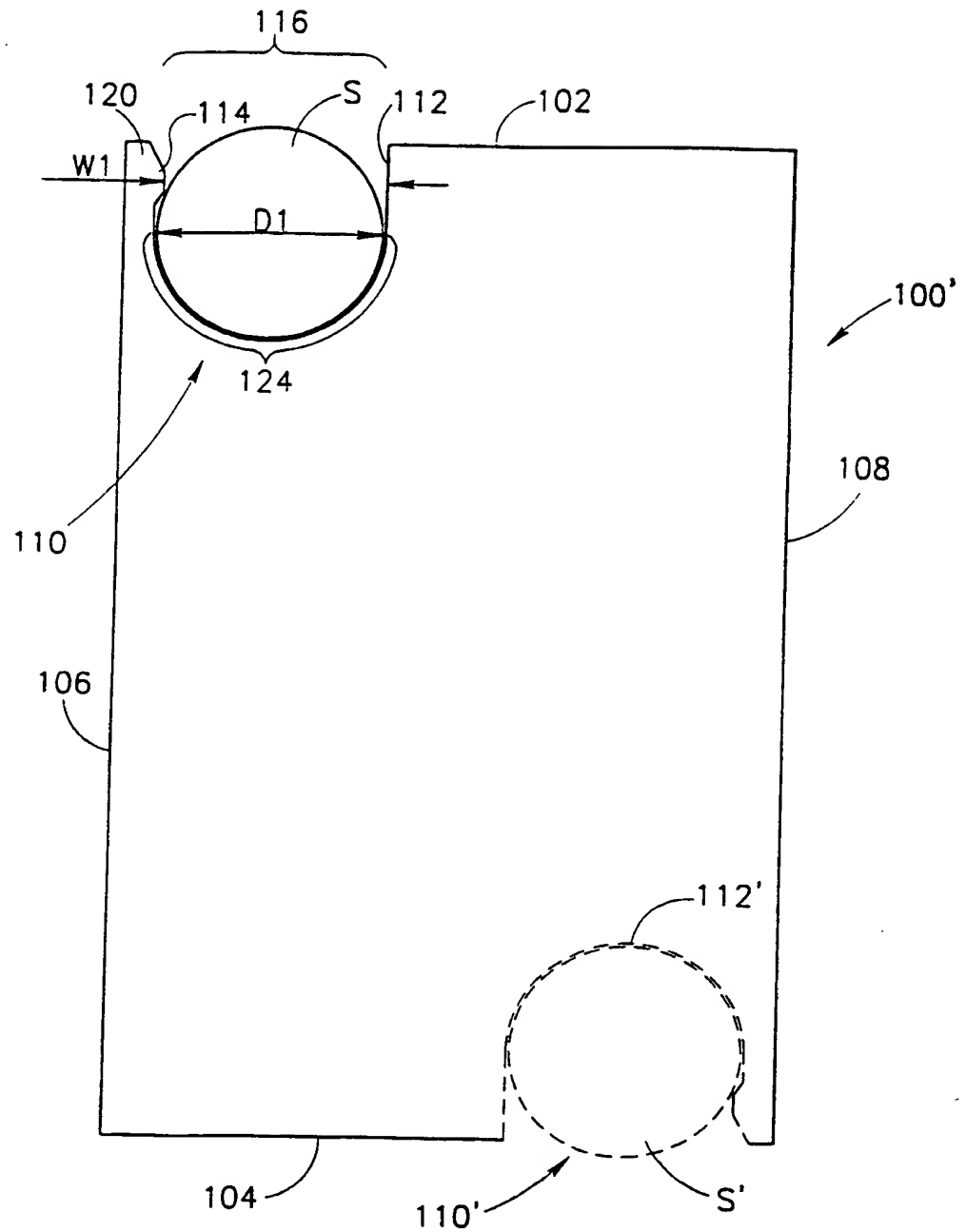
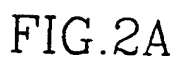
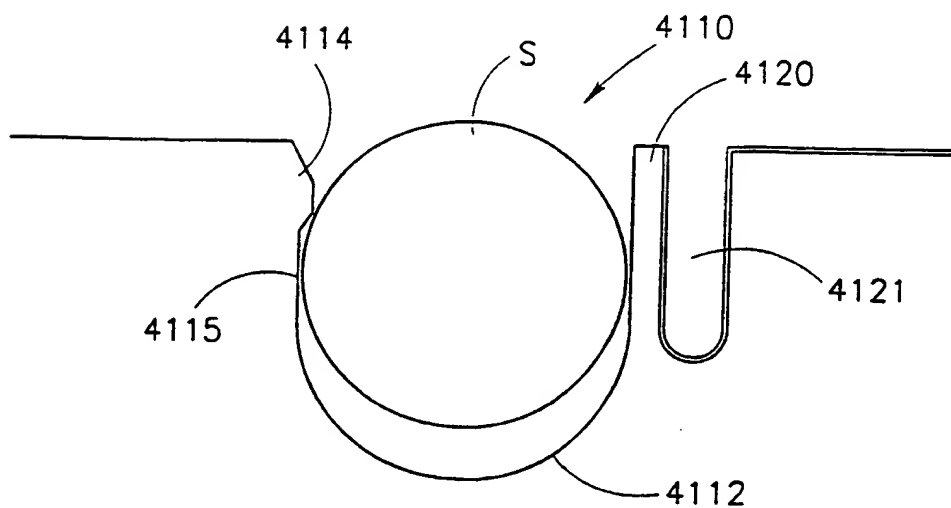
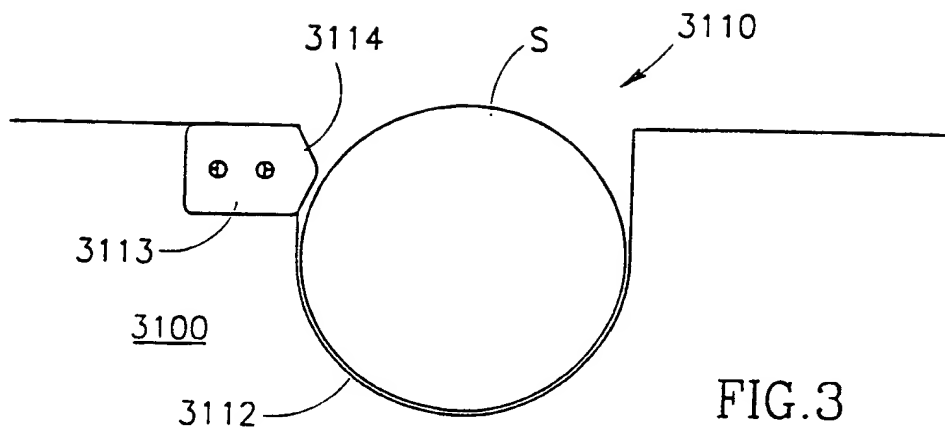


FIG. 1C



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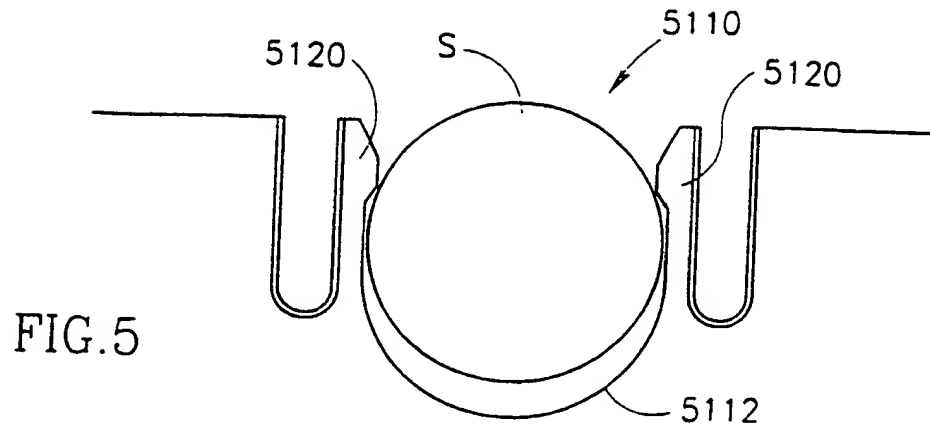


FIG.5

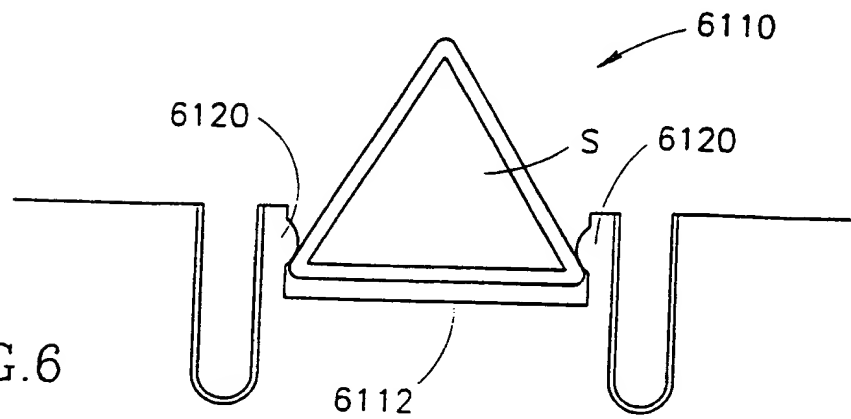


FIG.6

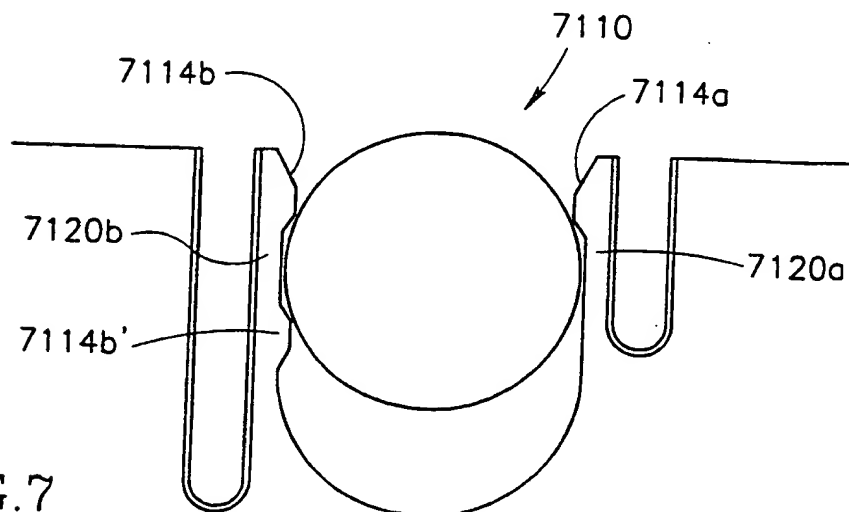


FIG. 7

Parameter	Value	Parameter	Value
Initial Temperature (°C)	25.0	Final Temperature (°C)	25.0
Initial Pressure (atm)	1.0	Final Pressure (atm)	1.0
Initial Volume (L)	1.0	Final Volume (L)	1.0
Initial Mass (g)	1.0	Final Mass (g)	1.0
Initial Density (g/L)	1.0	Final Density (g/L)	1.0
Initial Viscosity (Pa·s)	1.0	Final Viscosity (Pa·s)	1.0
Initial Thermal Conductivity (W/m·K)	1.0	Final Thermal Conductivity (W/m·K)	1.0
Initial Diffusivity (m²/s)	1.0	Final Diffusivity (m²/s)	1.0
Initial Permeability (mD)	1.0	Final Permeability (mD)	1.0
Initial Porosity (%)	1.0	Final Porosity (%)	1.0
Initial Saturation (%)	1.0	Final Saturation (%)	1.0
Initial Relative Permeability	1.0	Final Relative Permeability	1.0
Initial Capillary Pressure	1.0	Final Capillary Pressure	1.0
Initial Surface Tension	1.0	Final Surface Tension	1.0
Initial Wettability	1.0	Final Wettability	1.0
Initial Interfacial Tension	1.0	Final Interfacial Tension	1.0
Initial Contact Angle	1.0	Final Contact Angle	1.0
Initial Adsorption	1.0	Final Adsorption	1.0
Initial Desorption	1.0	Final Desorption	1.0
Initial Hysteresis	1.0	Final Hysteresis	1.0
Initial Memory Effect	1.0	Final Memory Effect	1.0
Initial Aging	1.0	Final Aging	1.0
Initial Healing	1.0	Final Healing	1.0
Initial Self-Healing	1.0	Final Self-Healing	1.0
Initial Self-Healing Rate	1.0	Final Self-Healing Rate	1.0
Initial Self-Healing Time	1.0	Final Self-Healing Time	1.0
Initial Self-Healing Mechanism	1.0	Final Self-Healing Mechanism	1.0
Initial Self-Healing Efficiency	1.0	Final Self-Healing Efficiency	1.0
Initial Self-Healing Cost	1.0	Final Self-Healing Cost	1.0
Initial Self-Healing Sustainability	1.0	Final Self-Healing Sustainability	1.0
Initial Self-Healing Scalability	1.0	Final Self-Healing Scalability	1.0
Initial Self-Healing Reproducibility	1.0	Final Self-Healing Reproducibility	1.0
Initial Self-Healing Reliability	1.0	Final Self-Healing Reliability	1.0
Initial Self-Healing Durability	1.0	Final Self-Healing Durability	1.0
Initial Self-Healing Stability	1.0	Final Self-Healing Stability	1.0
Initial Self-Healing Compatibility	1.0	Final Self-Healing Compatibility	1.0
Initial Self-Healing Interoperability	1.0	Final Self-Healing Interoperability	1.0
Initial Self-Healing Portability	1.0	Final Self-Healing Portability	1.0
Initial Self-Healing Flexibility	1.0	Final Self-Healing Flexibility	1.0
Initial Self-Healing Adaptability	1.0	Final Self-Healing Adaptability	1.0
Initial Self-Healing Resilience	1.0	Final Self-Healing Resilience	1.0
Initial Self-Healing Robustness	1.0	Final Self-Healing Robustness	1.0
Initial Self-Healing Tolerance	1.0	Final Self-Healing Tolerance	1.0
Initial Self-Healing Fault Tolerance	1.0	Final Self-Healing Fault Tolerance	1.0
Initial Self-Healing Error Tolerance	1.0	Final Self-Healing Error Tolerance	1.0
Initial Self-Healing Latency	1.0	Final Self-Healing Latency	1.0
Initial Self-Healing Throughput	1.0	Final Self-Healing Throughput	1.0
Initial Self-Healing Bandwidth	1.0	Final Self-Healing Bandwidth	1.0
Initial Self-Healing Delay	1.0	Final Self-Healing Delay	1.0
Initial Self-Healing Jitter	1.0	Final Self-Healing Jitter	1.0
Initial Self-Healing Packet Loss	1.0	Final Self-Healing Packet Loss	1.0
Initial Self-Healing Congestion	1.0	Final Self-Healing Congestion	1.0
Initial Self-Healing Security	1.0	Final Self-Healing Security	1.0
Initial Self-Healing Privacy	1.0	Final Self-Healing Privacy	1.0
Initial Self-Healing Integrity	1.0	Final Self-Healing Integrity	1.0
Initial Self-Healing Availability	1.0	Final Self-Healing Availability	1.0
Initial Self-Healing Reliability	1.0	Final Self-Healing Reliability	1.0
Initial Self-Healing Maintainability	1.0	Final Self-Healing Maintainability	1.0
Initial Self-Healing Testability	1.0	Final Self-Healing Testability	1.0
Initial Self-Healing Debuggability	1.0	Final Self-Healing Debuggability	1.0
Initial Self-Healing Monitorability	1.0	Final Self-Healing Monitorability	1.0
Initial Self-Healing Configurability	1.0	Final Self-Healing Configurability	1.0
Initial Self-Healing Extensibility	1.0	Final Self-Healing Extensibility	1.0
Initial Self-Healing Interoperability	1.0	Final Self-Healing Interoperability	1.0
Initial Self-Healing Portability	1.0	Final Self-Healing Portability	1.0
Initial Self-Healing Flexibility	1.0	Final Self-Healing Flexibility	1.0
Initial Self-Healing Adaptability	1.0	Final Self-Healing Adaptability	1.0
Initial Self-Healing Resilience	1.0	Final Self-Healing Resilience	1.0
Initial Self-Healing Robustness	1.0	Final Self-Healing Robustness	1.0
Initial Self-Healing Tolerance	1.0	Final Self-Healing Tolerance	1.0
Initial Self-Healing Fault Tolerance	1.0	Final Self-Healing Fault Tolerance	1.0
Initial Self-Healing Error Tolerance	1.0	Final Self-Healing Error Tolerance	1.0
Initial Self-Healing Latency	1.0	Final Self-Healing Latency	1.0
Initial Self-Healing Throughput	1.0	Final Self-Healing Throughput	1.0
Initial Self-Healing Bandwidth	1.0	Final Self-Healing Bandwidth	1.0
Initial Self-Healing Delay	1.0	Final Self-Healing Delay	1.0
Initial Self-Healing Jitter	1.0	Final Self-Healing Jitter	1.0
Initial Self-Healing Packet Loss	1.0	Final Self-Healing Packet Loss	1.0
Initial Self-Healing Congestion	1.0	Final Self-Healing Congestion	1.0
Initial Self-Healing Security	1.0	Final Self-Healing Security	1.0
Initial Self-Healing Privacy	1.0	Final Self-Healing Privacy	1.0
Initial Self-Healing Integrity	1.0	Final Self-He	

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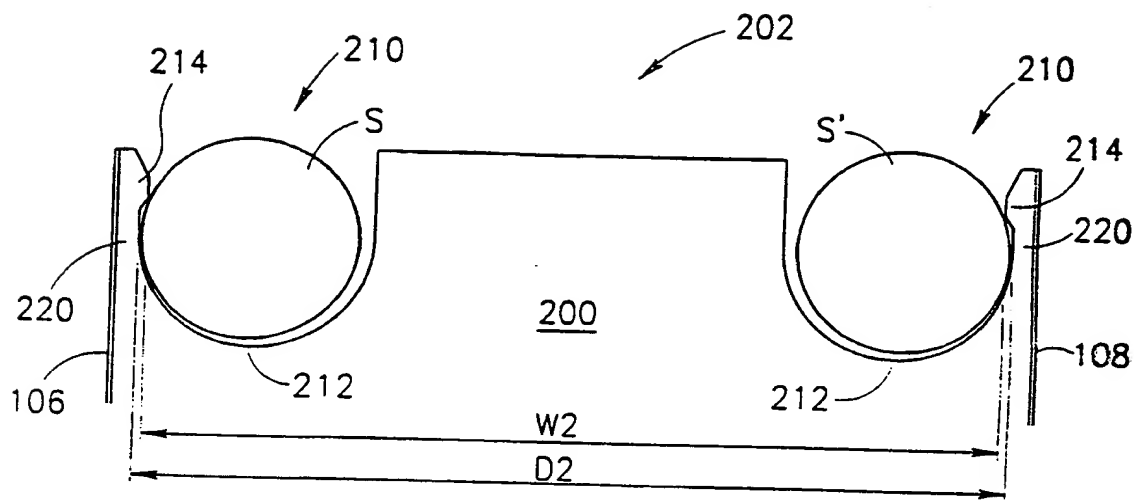


FIG. 8

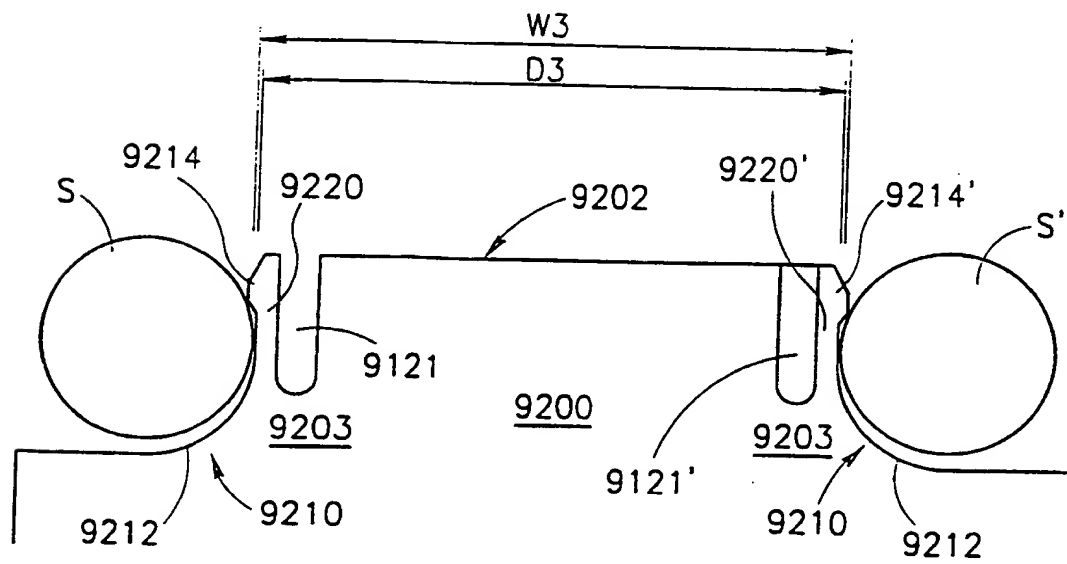


FIG. 9

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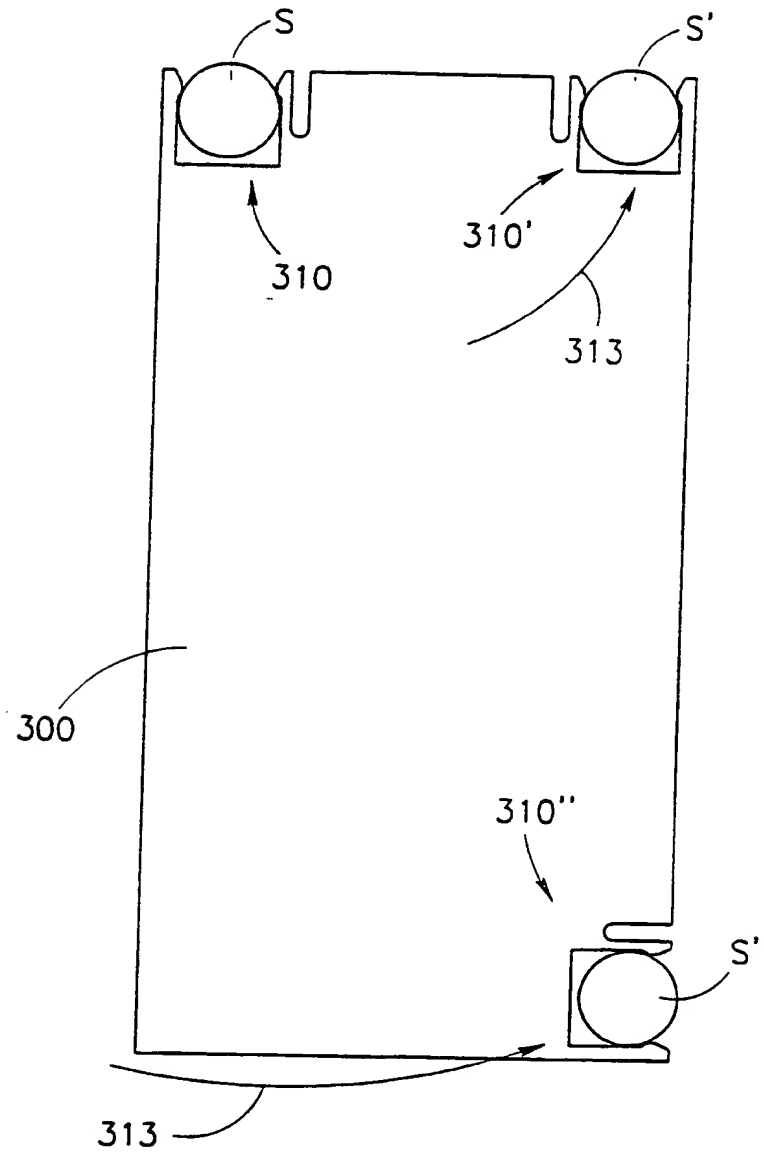


FIG. 10

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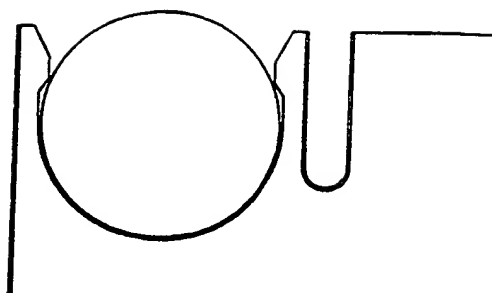


FIG. 11

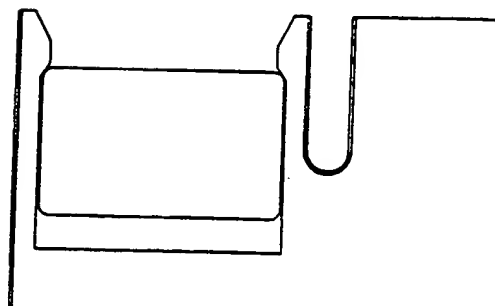


FIG. 12

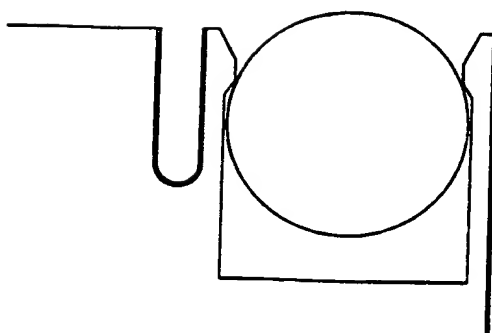


FIG. 13

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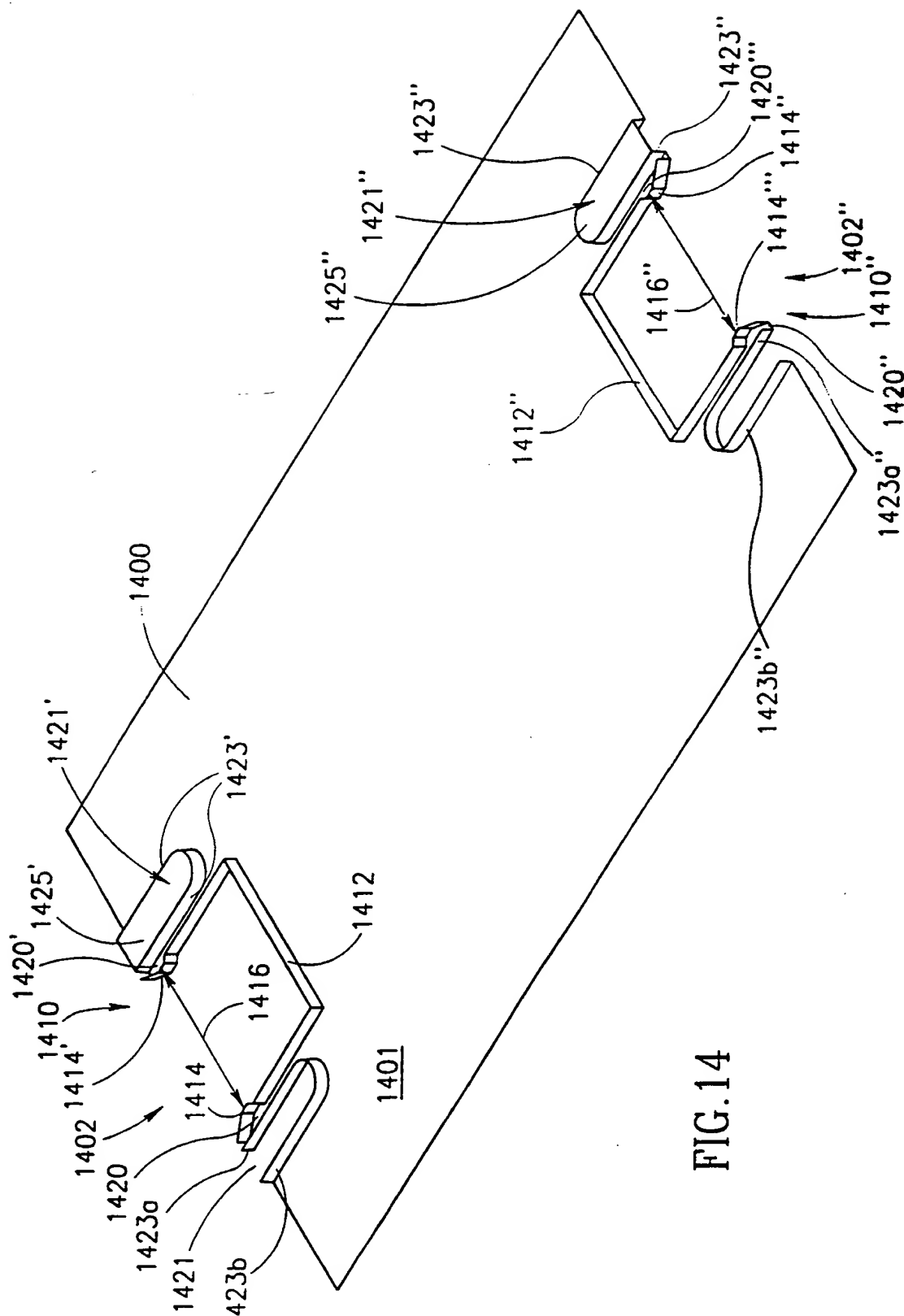
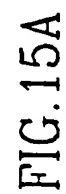


FIG. 14



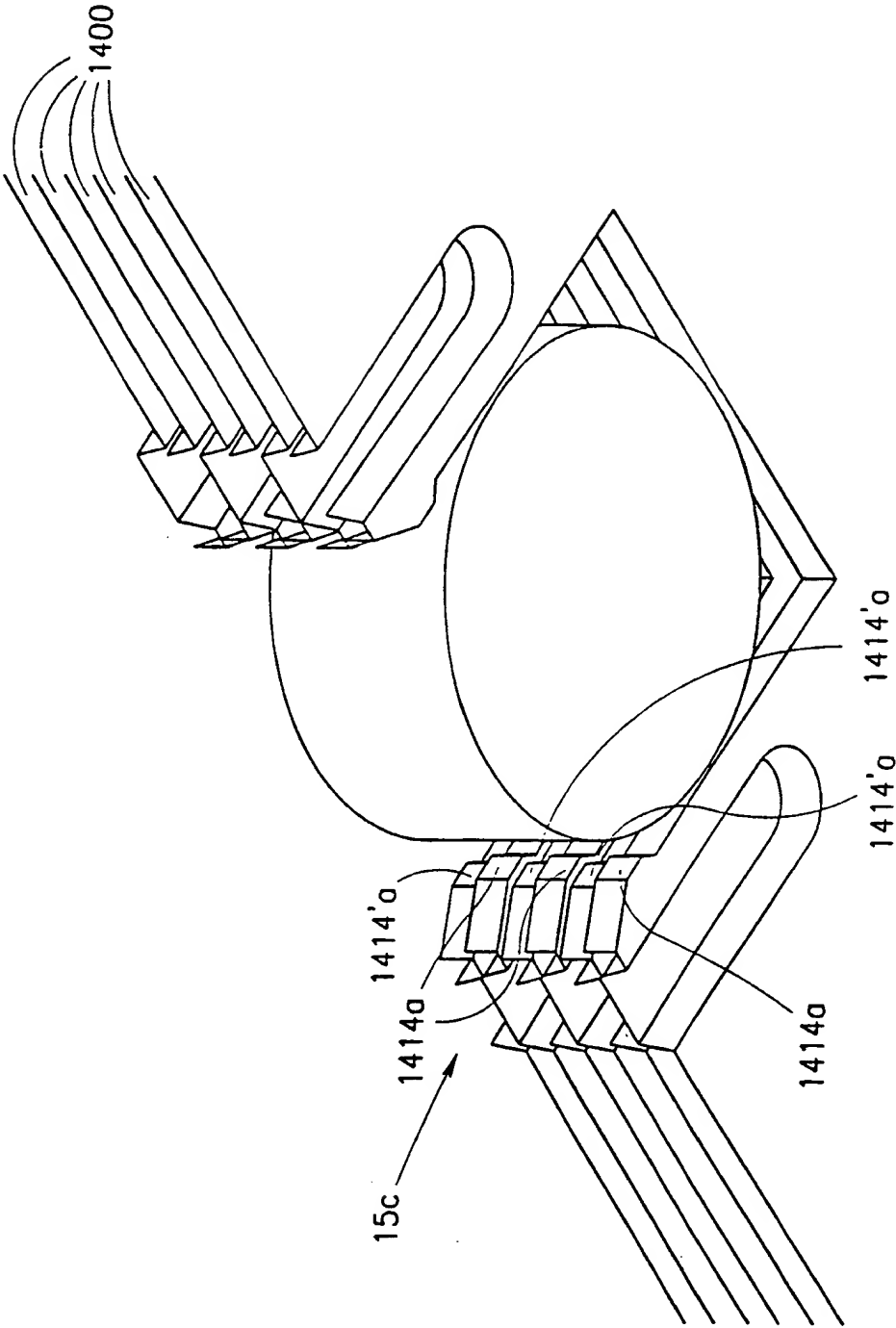


FIG. 15B

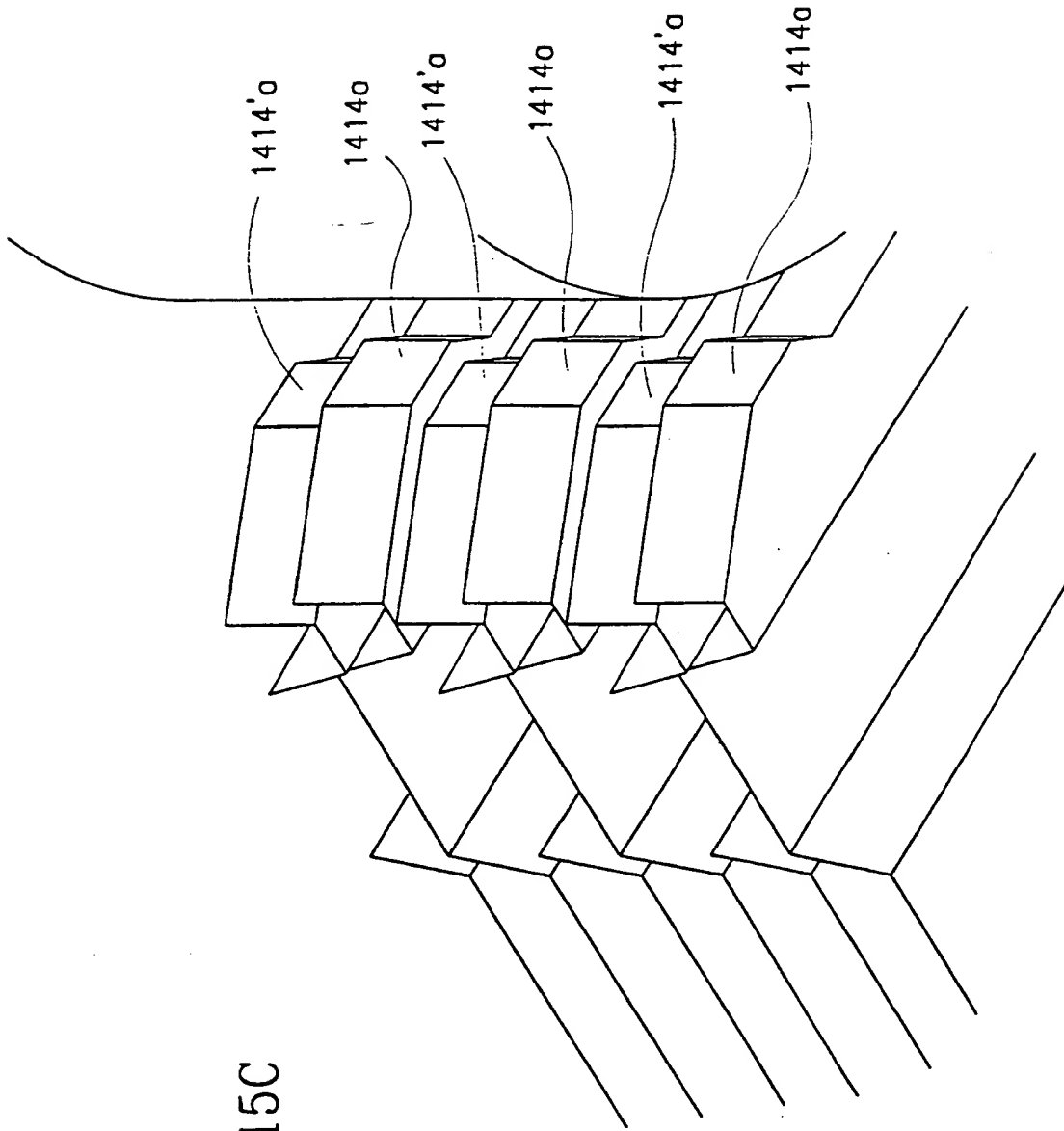
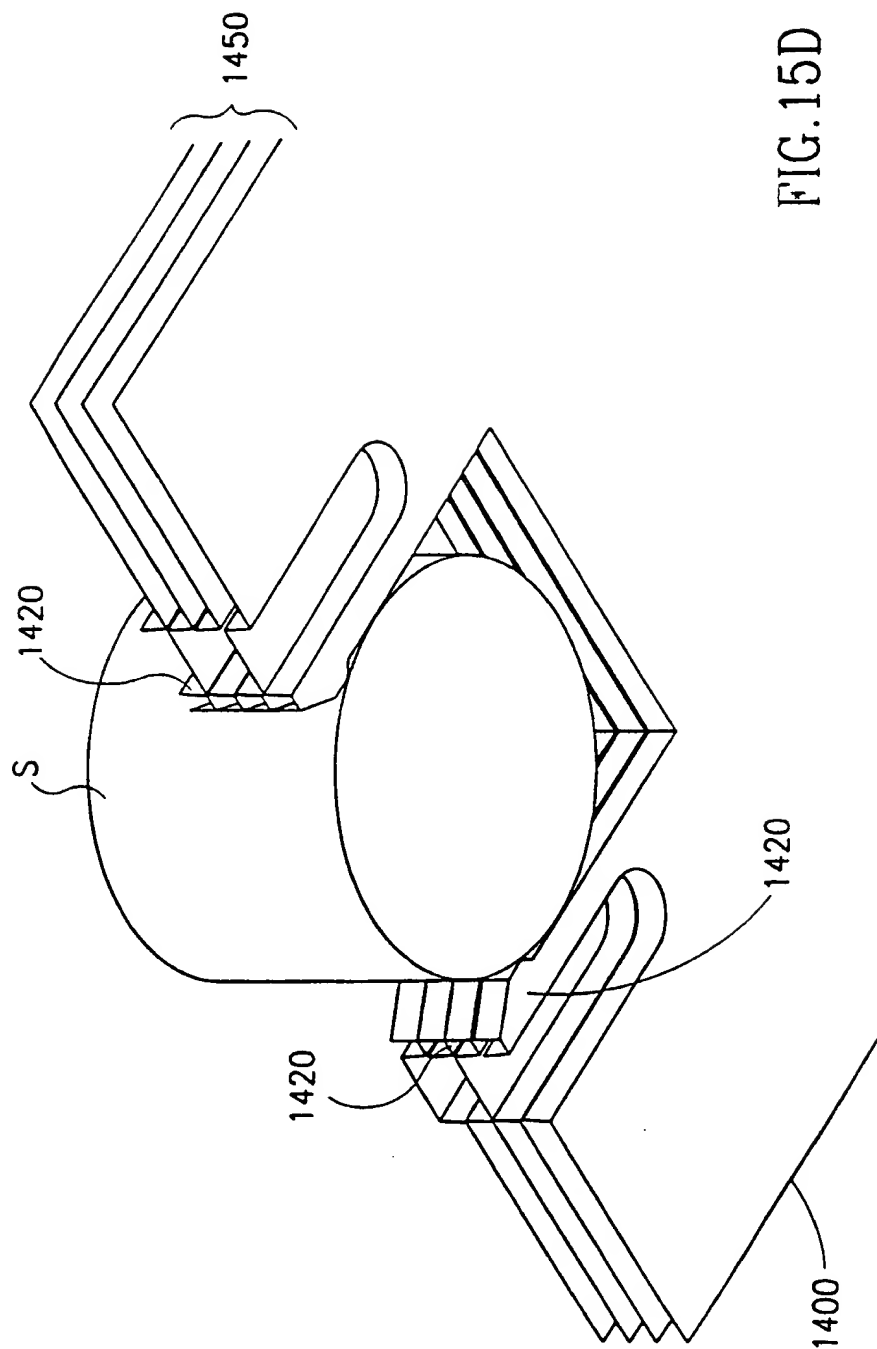
[illegible]

FIG. 15C



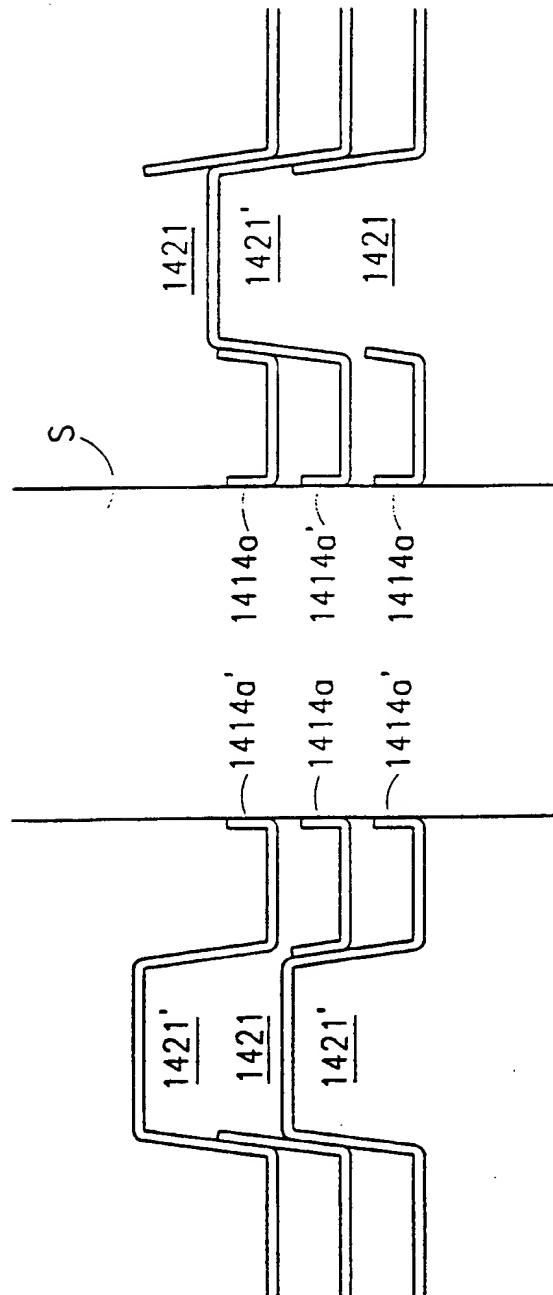
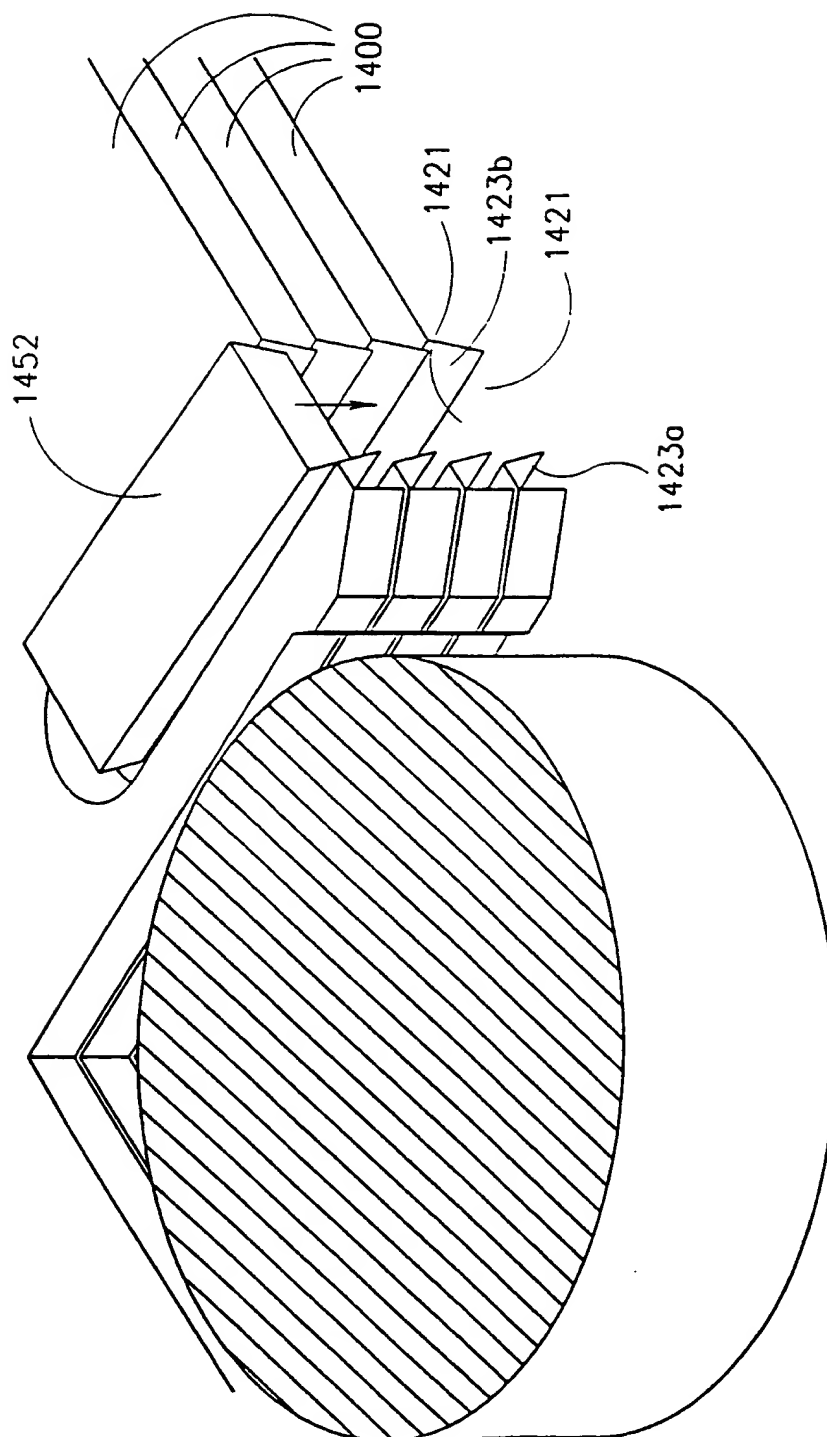


FIG. 15E

FIG. 16



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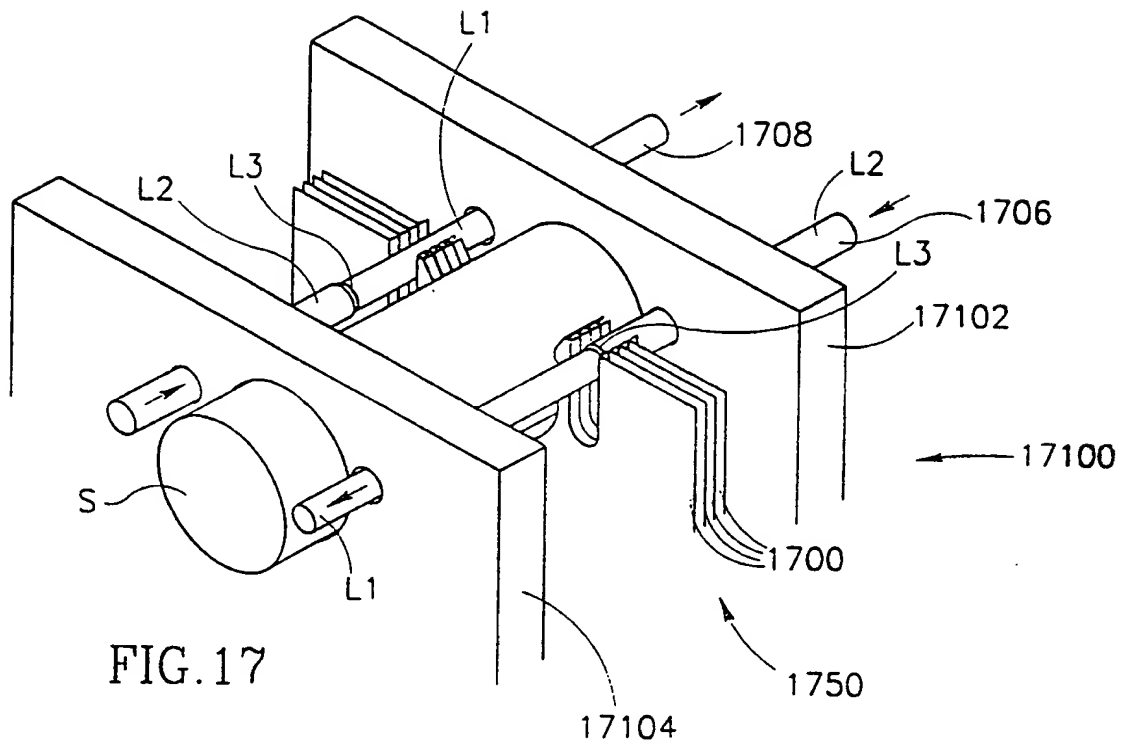


FIG. 17

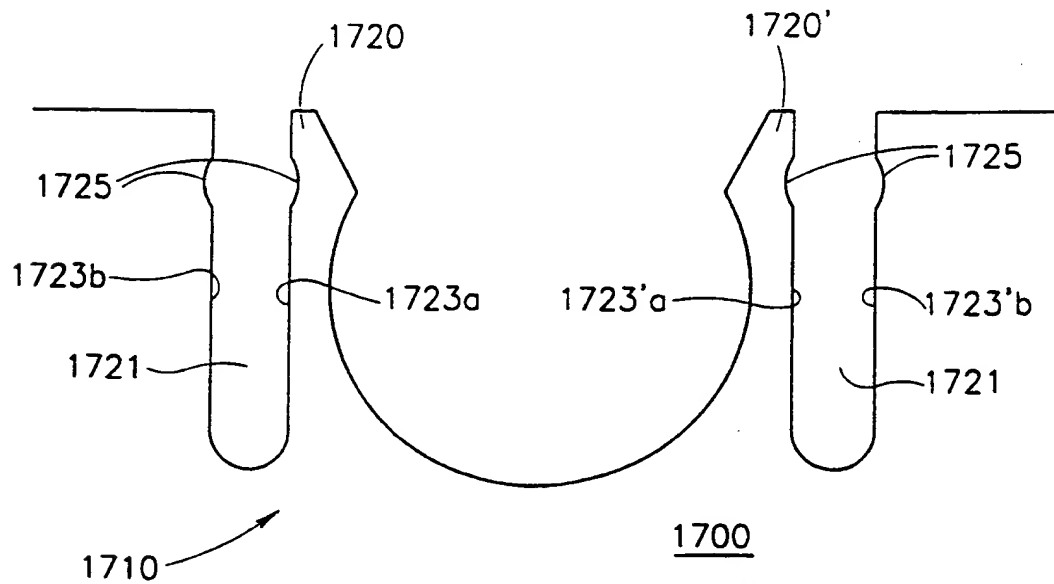


FIG. 18

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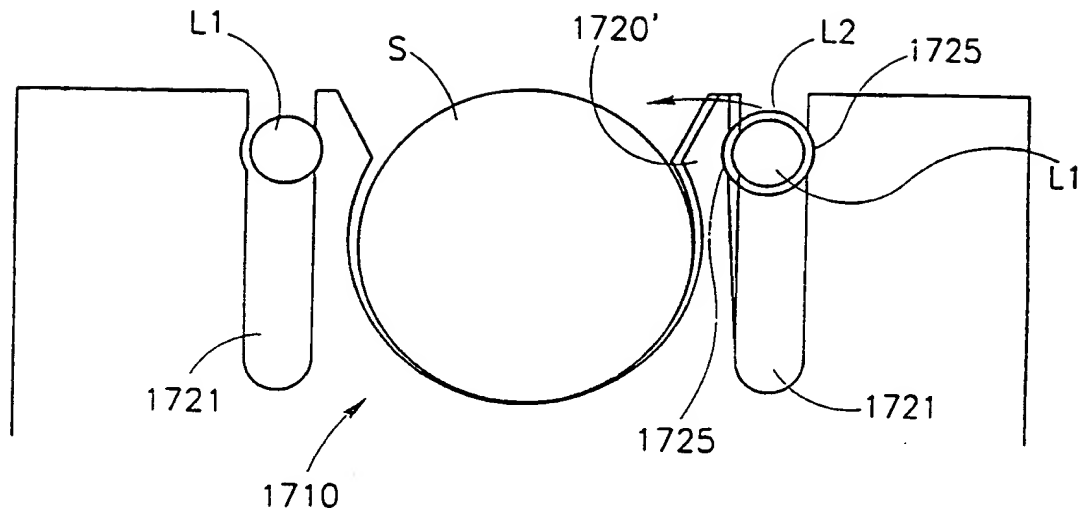


FIG. 19A

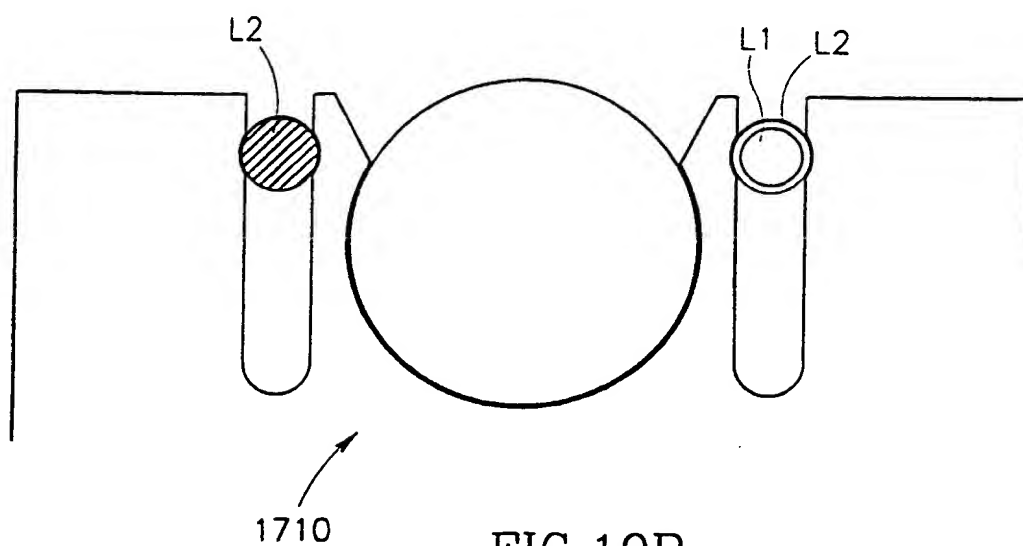
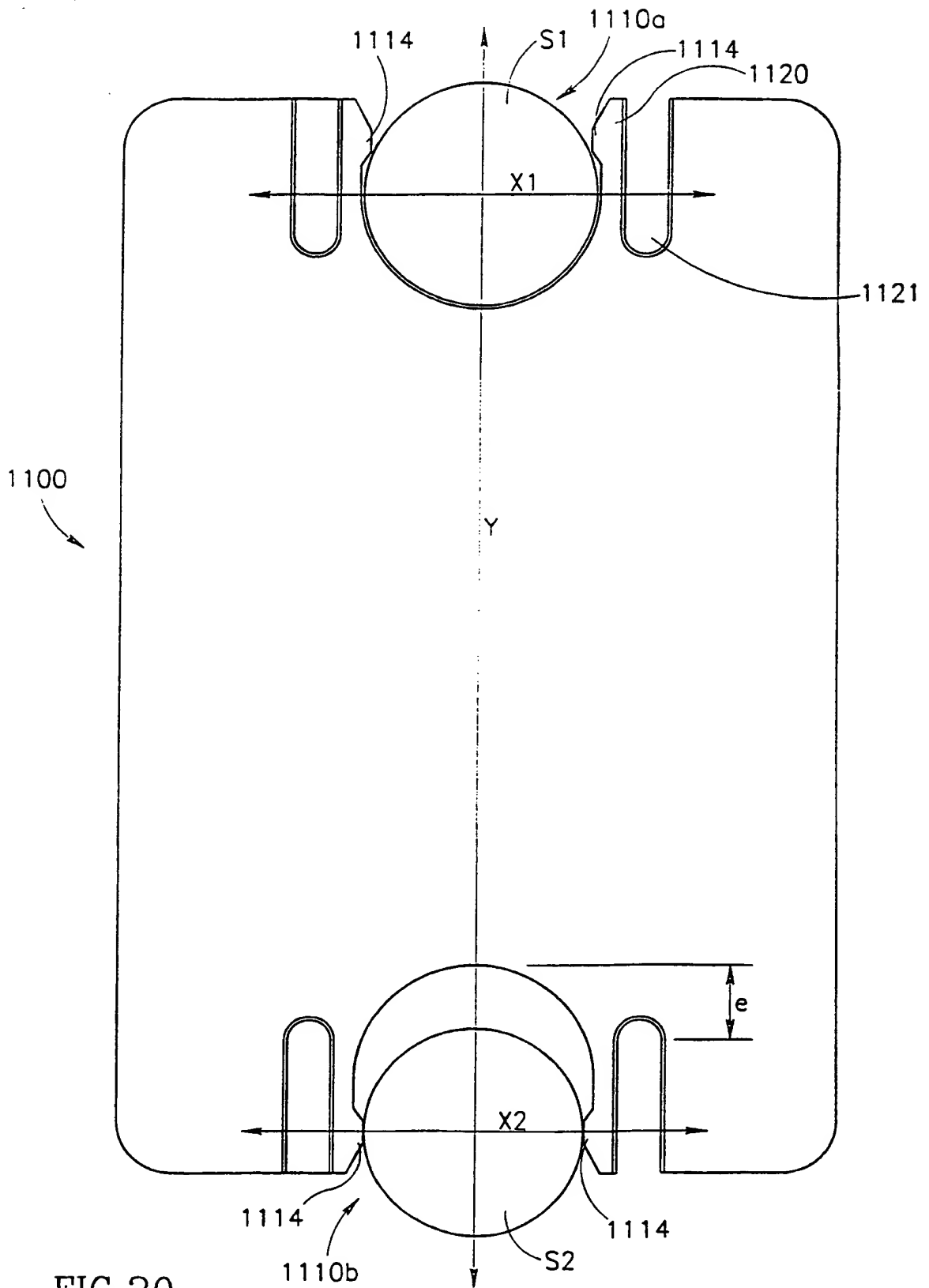


FIG. 19B

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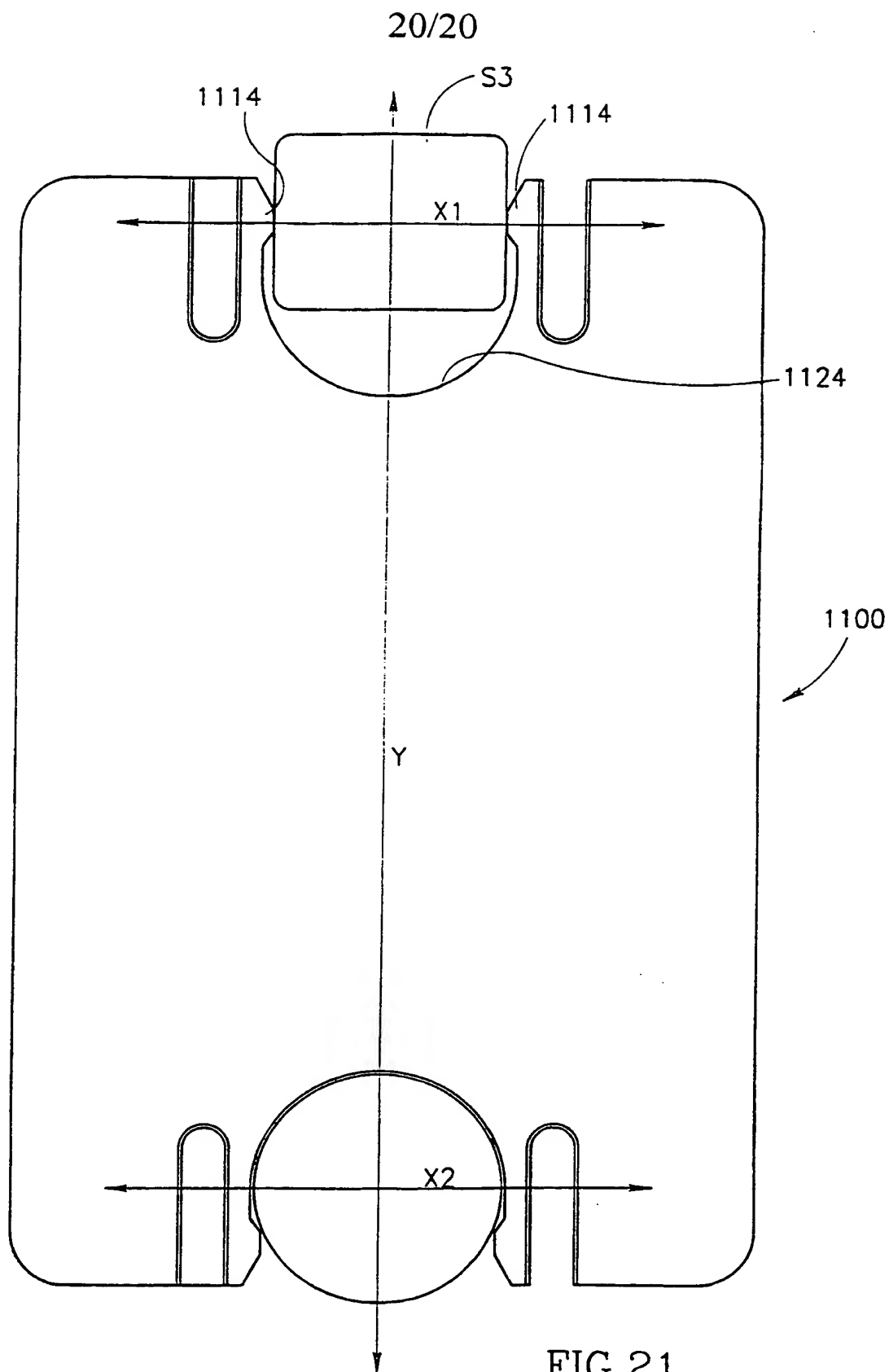


FIG. 21